

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI- 7453  
FOR  
WEST BASIN MUNICIPAL WATER DISTRICT  
(West Basin Water Recycling Facility)  
(Title 22 Recycled Water)**

**I. MONITORING AND REPORTING REQUIREMENTS**

- A. The Producer shall implement this monitoring program on the effective date of this Order. Monitoring reports shall be submitted quarterly, by the 15th day of the second month following the end of the quarterly monitoring period. The first monitoring report under this program shall be received at the Regional Board by August 15, 2001, covering the monitoring period from April 1 to June 30, 2001.
- B. Quarterly monitoring shall be performed during the months of February, May, August, and November. Annual monitoring shall be performed during the month of August. Results of monthly, quarterly, and annual analyses shall be reported in the appropriate quarterly monitoring report. Should there be instances when monitoring could not be done during these specified months, the Producer must notify the Regional Board stating the reason why and obtain approval for an alternate schedule.
- C. All chemical, and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be submitted with the annual summary report.
- D. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC items must be run on the same dates when samples were actually analyzed, and the results shall be reported in the Regional Board format and submitted with the laboratory reports. The Producer shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the report.
- E. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL) and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, analytical data shall be reported with one of the following methods, as the case may be:
  - a. An actual numerical value for sample results greater than or equal to the ML; or
  - b. "Detected, but Not Quantified (DNQ)" with an estimated chemical concentration of the sample if results are greater than or equal to the laboratory's MDL but less than the ML; or
  - c. "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Revised March 29, 2001  
March 12, 2001

The MLs are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, March 2, 2000*.

- F. The ML employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Producer can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once a year, the Producer shall submit a list of the analytical methods employed for each test and associated laboratory quality assurance/quality control procedures.
- G. The Producer shall inform the Regional Board well in advance of any proposed construction activity or modification to the treatment plant that could potentially affect compliance with applicable requirements.

## II. SUBMITTAL OF MONITORING AND ANNUAL REPORTS

- A. All monitoring and annual summary reports must be addressed to the Regional Board, Attention: Information Technology Unit. Reference the reports to Compliance File No. CI-7453 to facilitate routing to the appropriate staff and file.
- B. By March 1 of each year, the Producer shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. The data shall be submitted to the Regional Board on hard copy and on 3 1/2" computer diskette. The submitted data must be IBM compatible, preferably using Microsoft Excel software. In addition, the Producer shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the recycled water into full compliance with water recycling requirements.

The annual report shall address operator certification and provide a list of current operating personnel and their grade of certification. The report shall also include the date of the facility's Operation and Maintenance Management Plan, the date the plan was last reviewed, and whether the plan is complete and valid for the current facilities. The report shall restate, for the record, the laboratories used by the Producer to monitor compliance with this Order, their status of certification, and provide a summary of performance.

- C. Database Management System: The Regional Board has developed a compliance monitoring database management system that may require the Producer to submit the monitoring and annual summary reports electronically when it becomes fully operational.

## III. RECYCLED WATER MONITORING

A sampling station shall be established where representative samples of recycled water can be obtained. Recycled water samples may be obtained at a single station provided that station is representative of the quality of all recycled water delivered to the users. Each sampling station shall be identified and approved by the Executive Officer prior to its use.

A. Monitoring Program for the Conventionally Treated Title 22 Recycled Water

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u> <sup>1</sup>	<u>Minimum Frequency of Analysis</u>
Total waste flow	MGD	---	continuous
Turbidity <sup>2</sup>	NTU	---	continuous
Chlorine residual <sup>3</sup>	mg/L	---	continuous
pH	pH units	grab	daily
Coliform <sup>4</sup>	MPN/100ml	grab	daily
Suspended solids	mg/L	24-hr composite	weekly
BOD <sub>5</sub> 20°C	mg/L	24-hr composite	weekly
Settleable solids	ml/L	24-hr composite	weekly
Oil and grease	mg/L	grab	monthly
Total dissolved solids	mg/L	24-hr composite	monthly
Chloride	mg/L	24-hr composite	monthly
Boron	mg/L	24-hr composite	monthly
Sulfate	mg/L	24-hr composite	monthly
Nitrate nitrogen	mg/L	24-hr composite	quarterly
Nitrite nitrogen	mg/L	24-hr composite	quarterly
Ammonia nitrogen	mg/L	24-hr composite	quarterly
Total organic carbon	mg/L	24-hr composite	quarterly
Hexavalent chromium	mg/L	grab	quarterly
Priority pollutants <sup>5</sup>	µg/L	grab and 24-hr composite	quarterly
Radioactivity	pCi/L	24-hr composite	annually

1. "Grab sample" is defined as any individual sample collected in a short period of time not exceeding 15 minutes. "Grab samples" shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with "daily maximum" limits and the "instantaneous maximum" limits.

"Composite sample" means, for flow measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of the treatment, whichever is shorter.

2. Turbidity shall be continuously monitored and recorded at a point after final filtration. The average value recorded each day, the amount of time that 5 NTU is exceeded, and the incident of exceeding 10 NTU, if any, shall be reported.
3. Chlorine residual shall be continuously monitored and recorded at a point after the final chlorine contact tank. The minimum and maximum values shall be reported.
4. Samples shall be obtained subsequent to the chlorination process.
5. Priority pollutants are listed on page T-6. Grab samples shall only be used for the analyses of volatile organics and cyanide. Monitoring for TCDD for the conventionally treated Title 22 recycled water shall be conducted quarterly during the first year after the effective date of this Order. If the results of all samples show TCDD to be not detected, TCDD monitoring for this Title 22 recycled water shall be reduced to annually and shall be performed during the month of August.

B. Monitoring Program for RO Treated Boiler Feedwater

Two sampling stations shall be established for the low-pressure and the high-pressure boiler feedwater, respectively. The following shall constitute the monitoring program for the boiler feedwater:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u> <sup>1</sup>	<u>Minimum Frequency of Analysis</u>
Total waste flow	MGD	---	continuous
Turbidity <sup>6</sup>	NTU	---	continuous
pH	pH units	grab	weekly
Coliform	MPN/100ml	grab	weekly
Priority pollutants <sup>5, 7</sup>	µg/L	grab and 24-hr composite	annually
Radioactivity <sup>7</sup>	pCi/L	24-hr composite	annually

<sup>6.</sup> Turbidity shall be continuously monitored and recorded at a point after microfiltration. The average value recorded each day, the amount of time that 0.2 NTU is exceeded, and the incident of exceeding 0.5 NTU, if any, shall be reported.

<sup>7.</sup> These analyses shall be conducted for the low-pressure and the high-pressure boiler feedwater at the first year after the effective date of the Order. If the first analysis of the high-pressure boiler feedwater indicates complete compliance with the requirements, only the low-pressure boiler feedwater shall be analyzed thereafter.

IV. RECYCLED WATER USE MONITORING

The Producer shall submit a quarterly report, in a tabular form, the list of users serviced during the quarter, the amount of recycled water delivered to each user, and the use of the recycled water. A summary of these data shall be included in the annual report.

V. GENERAL MONITORING AND REPORTING REQUIREMENTS

- A. The Producer shall summarize and arrange the monitoring data in tabular form to demonstrate compliance with requirements.
- B. For every item where the requirements are not met, the Producer shall submit a statement of the actions undertaken or proposed which will bring the recycled water into full compliance with requirements at the earliest possible time, and submit a timetable for implementation of the corrective measures.
- C. Monitoring reports shall be signed by either the principal Executive Officer or ranking elected official. A duly authorized representative of the aforementioned signatories may sign documents if:
  - a. The authorization is made in writing by the signatory;
  - b. The authorization specifies the representative as either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
  - c. The written authorization is submitted to the Executive Officer of this Regional Board.

D. The monitoring report shall contain the following completed declaration:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments thereto; and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Executed on the \_\_ day of \_\_\_\_\_ at \_\_\_\_\_  
\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Title

E. The Producer shall retain records of all monitoring information, including all calibration and maintenance, monitoring instrumentation, and copies of all reports required by this Order, for a period of at least three(3) years from the date of sampling measurement, or report. This period may be extended by request of the Regional Board or State DOHS at any time and shall be extended during the course of any unresolved litigation regarding the regulated activity.

F. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analysis;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

G. The Producer shall submit to the Regional Board, together with the first monitoring report required by this Order, a list of all chemicals and proprietary additives which could affect the quality of the recycled water, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.

An annual summary of the quantities of all chemicals, listed by both trade and chemical names, which are used in the treatment process shall be included in the annual report.

Ordered By:

Dennis A. Dickerson  
Executive Officer

Date: March 29, 2001

